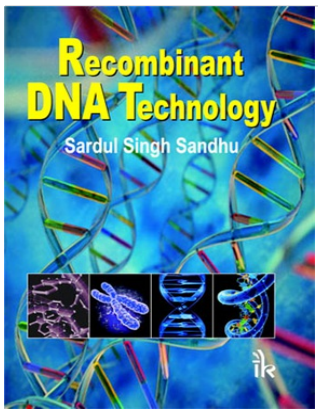
Book Information Sheet



Recombinant DNA Technology , 1/e

Sardul Singh Sandhu

2010 | 224 pp | Hardback | ISBN: 9789380578446 | Price: 795.00

About the Book

The objective of the book is to introduce the basic principle and techniques used to make Recombinant DNA. The book commences with an introduction to different tools used for Gene cloning. The final chapters cover the application of Recombinant Technology on current research and provide an inside look on Human Genome Project, Ribozyme Technology, Antisense technology, DNA sequencing, Protein Engineering, Transgenic technology and development of vaccines.

It features summary of chapter in the form of flow charts, highlighting the key points. The book also includes an appendix which provides in depth descriptions of protocols which cover the basic aspects of Molecular biology and glossary defining nearly all the possible terms mentioned in the book.

The purpose of this book is to provide an insight on theoretical aspects of Recombinant DNA manipulation with special emphasis on different procedures to create chimeric molecules using examples from actual experimental works. The book has been designed for under-graduates, post-graduates and technicians who wish to know and use the principles and techniques of Recombinant DNA Technology

Salient Features

Salient Features:

- The book explores the subject through chapters on basic backgrounder, techniques for isolation and studies, tools used, biological aspects, cloning strategies, and selection and screening.
- The final chapter on “Genetic engineering in action” includes gene therapy, the Human Genome Project, GM crops, gene knock down etc.
- Appendices include a list of 15 protocols used in recombinant DNA technology, and important terms in the glossary.
- Includes flowcharts on Molecular Biology in a Nutshell and Genetic Engineering in a Nutshell.

Table of Contents

Introduction
- Basic Molecular Biology
- Handling the Nucleic Acids
- Tools used in Recombinant DNA technology
- Recombinant DNA Technology: Biological Aspects
- Strategies for cloning
- Recombinant Analysis: Selection and Screening
- Genetic Engineering in Action

Appendix: Some Protocols used in Recombinant DNA Technology
Glossary
Index

About the Author

Sardul Singh Sandhu :- Sardul Singh Sandhu
Director
Centre for Scientific Research & Development (C.S.R.D.)
People’s Group, Bhopal